SCREENS *that* MEET *the* TEST

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THE AMERICAN BRASS COMPANY
General Offices: Waterbury, Connecticut

BRONZE SCREENS— ARE AS GOOD AS NEW YEAR AFTER YEAR

With reasonable care screens of strong, rust-proof Anaconda *Antique* or *Golden Bronze* will last a lifetime and the cost of repairing and replacing rusted and broken screens can be dropped from the annual budget. Screens of Bronze have ended screen expense for many thousands of home owners. They will end it for you—and at small cost.

Publication B 6—Second Edition
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YOU can't enjoy your home when things are always getting out of order, breaking or wearing out. It isn't the expense alone, but often the inconvenience and frequently the actual discomfort.

Rusted and broken window and door screens cause more than their share of this nuisance, for screen wire is light and fragile, and unless made of strong, rust-proof metal, soon rusts and breaks when exposed to the weather.

Consider the evils of poor screening. After you have your house apparently well screened you begin to notice flies in your dining room. In the night comes the drone of a solitary mosquito making sleep impossible. Search reveals an unnoticed hole where one of your window screens has rusted through. You patch it. Peace for a brief time—then the same thing recurs. The following spring you get out the old screens and find many rusted and broken. A lot of new screening and more expense!

This annoyance and expense may be the least of your troubles. Perhaps there is contagious disease in the neighborhood and these insect carriers bring it to your home. Many people, particularly helpless sleeping children, are infected that way every summer.

There are many advantages in using permanent rust-proof screening and the added cost is so slight that it is almost negligible—less than $15 for the average home.

The Quest for Permanent Screening

MAN has been fighting flies and mosquitoes for countless ages. Earliest history pictures the slave waving a peacock feather fan about his master's head. Every generation has had its formulas for smudges and odors to keep the insect enemy at a distance. Countless traps and poisons have been tried.

Not until the invention of cotton netting did man make real progress toward keeping the winged terrors out. But cotton netting was easily torn and rotted out by weather. It cost too much to repair and replace.

Metal screening first came into use in hospitals and modern public buildings. Iron and steel wire were used and the use of wire screens rapidly spread to home owners. Health authorities further promoted it by teaching the value of fresh air in the home. Screened sleeping porches, verandas and summer-houses became popular.

But, although iron or steel wire screening fulfills the purpose while it lasts, it quickly rusts out. Paint, enamel and galvanizing all fail to give permanent protection and consequently screens that rust cost altogether too much for the service rendered.

Copper screening was next tried. It met the rust objection—copper is completely rust-proof—but still there was a distinct need for a stronger fabric.

The end of the quest came about 40 years ago with the introduction of a special bronze wire screening that combined the advantages of iron and copper without the disadvantages of either. This discovery was made by The American Brass Company, originators of Bronze wire for screens and manufacturers of Anaconda wire, a product widely used today by leading screen manufacturers.

What Destroys Screens

Your screens suffer from wear every time you put them up or remove them. Your screen doors must resist constant wear, hands and knees

thrusting against them, children and pets doing their bit. This abuse breaks rust-weakened iron wire and bulges soft and pliable screening.

Did you ever tip a chair against a screen? Or kick a screen door open? If you had weak screening the chances are you bulged it badly or put a hole through it. Screens of Anaconda Bronze Wire will withstand everyday wear and tear.

But constant exposure is the main cause of screen failure. Iron or steel wire rusts to destruction. As soon as it starts to rust it begins to lose its strength. In a season or two it is either broken or so badly rusted out that it is useless. Screens of Anaconda Bronze Wire with reasonable care will last a lifetime and the cost of repairing and replacing rusted or broken screens will be eliminated.

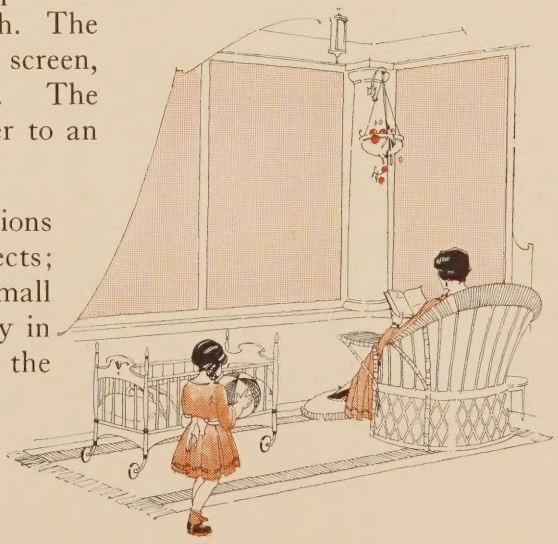
The Quality of Anaconda Bronze Wire

The American Brass Company, originators of this high strength and corrosion-resisting copper alloy for use in screens, has developed its methods along scientific lines and advanced its products to a high state of perfection during more than a century's experience in the manufacture of copper, brass and bronze.

The dependable quality of Anaconda Bronze Wire has led to its selection by the leading weavers of screen cloth in the country. When you buy screening insist on bronze—no other material gives the same dependable expense free service.

Screening of Anaconda Bronze Wire is supplied in a natural golden color or in an antique finish. The antique finish softens the appearance of the screen, improves visibility and removes glare. The natural golden finish will, in time, weather to an antique color.

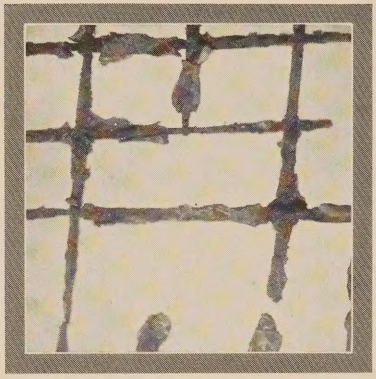
Bronze screening is made to meet all conditions —14 mesh to exclude flies and larger insects; 16 mesh for mosquitoes and ordinary small insects, and 18 mesh, which is needed only in localities infested with midges, gnats and the like. 16 mesh is the most commonly used.



TESTS THAT T

THE following illustrations show how different kinds of screen wire stand up under the attacks of the weather.

Samples of various kinds of screen wire were subjected to the *continuous action* of salt spray solution for six weeks, a test exceeding

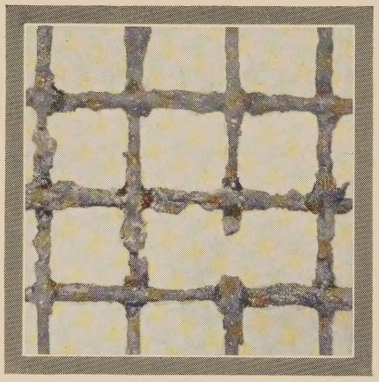


1. *Unpainted Iron*

THIS shows a piece of iron screen wire with paint removed. Tested for strength and hardness when new, this iron screening had more than enough strength and hardness for any practical need.

But after six weeks' exposure to this test of weather resistance, its destruction by rust was almost complete.

Long before it actually rusted through it was so weakened that it crumbled at a touch.



2. *Enameled Iron*

BLACK enamel over the iron wire of this piece of screening only slightly retarded the process of rusting.

At the end of six weeks most of the strength of the wire was gone and many holes appeared. For all practical purposes its usefulness was as completely destroyed as that of the unprotected iron.

This test shows that an enamel coating cannot be regarded as a permanent protection for iron wire against rust.

3. *Galvaniz*

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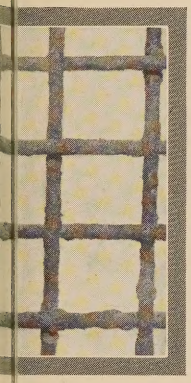
the most severe weather conditions found in practical service in any climates where screens are used.

Then the samples were tested for strength, weighed and photographed. The illustrations shown are magnified eight times.



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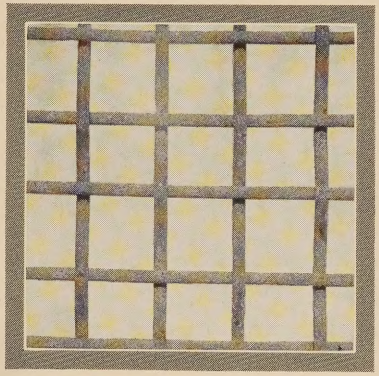
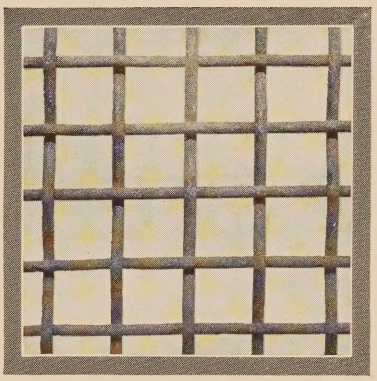


4. *Copper*

UNALLOYED copper, of which this sample was made, cannot rust and effectually resists corrosion. Even in salt air, such as the conditions of this test represent, copper is subject to very little corrosion, as the photograph shows.

But in the tests for strength and hardness, unalloyed copper does not measure up to Bronze wire.

It is not strong and stiff enough to prevent tearing and breaking when subjected to hard usage.



5. *Anaconda Bronze*

AFTER six weeks of exposure this Bronze screening was still strong, durable and in good condition. The test was continued *four weeks longer.*

At the end of the test this screening of Anaconda Bronze Wire had corroded very little and its strength was as great as the unalloyed copper screen before the test.

The superior durability of Anaconda Bronze Wire is apparent from a study of the facts.

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it is not rust-proof. Rust destroys its strength.

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And Now a Few Words, Telling How Bronze Wire Screening Saves You Money

WHEN you are building or equipping your home, it is false economy to buy cheap screening that won't last. It is expensive to paint, repair and replace screens that rust.

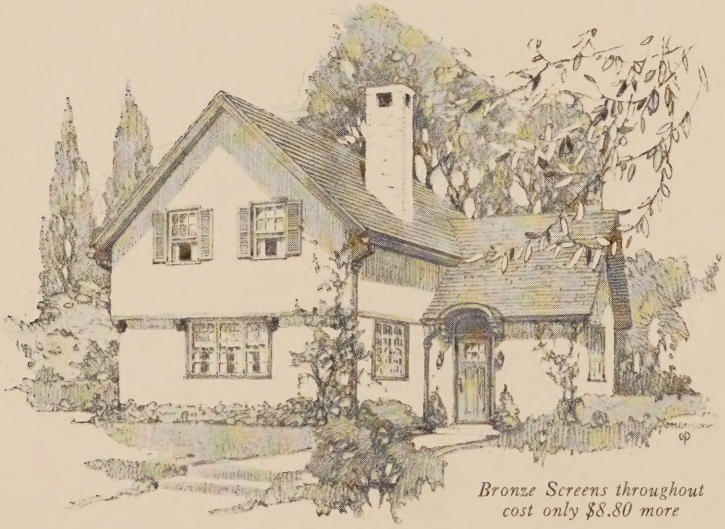
Screens of Anaconda Bronze Wire cost slightly more at first but the first cost is the last.

First Cost Moderate

Two-thirds to three-quarters of the cost of a screen goes into the frame. This cost remains the same whatever quality of screen cloth is used.

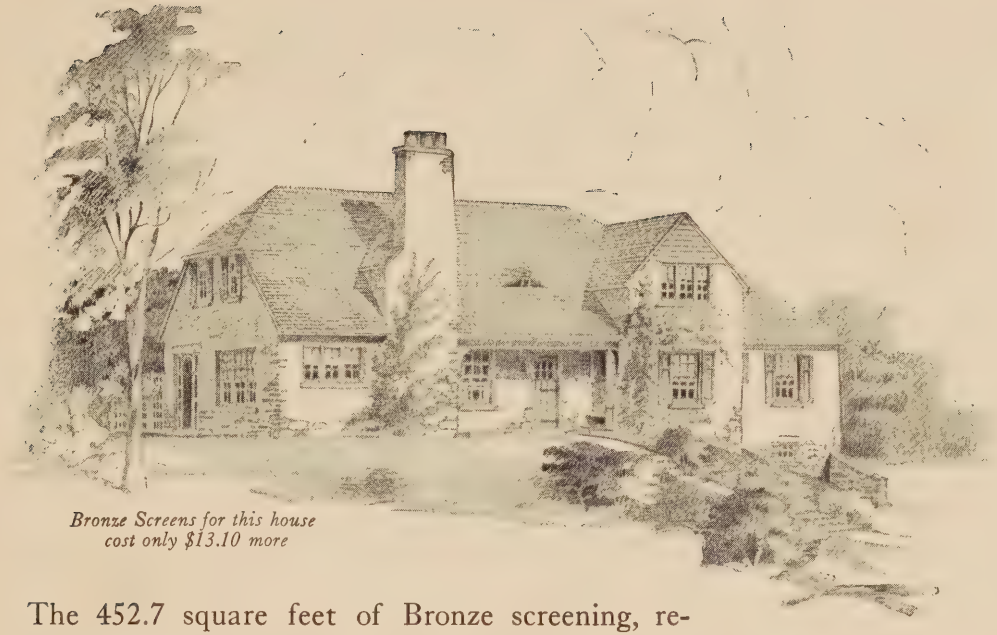
The additional cost of Bronze screening over iron varies from twenty-five to seventy-five cents for a window or door, according to the size of the frame and the locality in which it is made. Bronze costs but a few cents per window more than copper.

The two-story cottage illustrated below, having 18 windows measuring 36″ x 54″, and two doors, each 36″ x 84″, can be permanently equipped with strong, rustproof screens of Anaconda Bronze Wire for only $8.80 more than the cost of the best grade of corrodible screening. If iron or steel screens were installed, the slight saving in initial cost would disappear the first time they were painted.



Bronze Screens throughout cost only $8.80 more

In this cost comparison it is assumed that the frames and hardware would be of equal quality. Ample allowance has been made for waste due to cutting and fitting the fabric.



Bronze Screens for this house cost only $13.10 more

The 452.7 square feet of Bronze screening, required for all the doors and windows of the house illustrated above, was installed for only $13.10 more than the best grade of corrodible screening would have cost.

The comparisons given are outside figures. Slight variations from these prices may be expected in different localities. In many cases the difference in first cost between rust-proof permanent screening and temporary screening would be even less.

First Cost, the Only Cost

During the second year of use the small additional cost of Bronze screening disappears. Experience has shown that by this time the iron screening has already begun to rust. The expense for painting will balance the difference between the first cost of the two materials.

By the end of the third year perishable screening, in many localities, must be either repaired or replaced and the total cost is much greater than that of Bronze. With proper care the Bronze screening will last from 25 to 30 years and the saving becomes greater as time goes on.

A SUMMARY OF FACTS ABOUT SCREENING OF ANACONDA BRONZE WIRE

CREENING of Anaconda Bronze Wire is the final solution to the age-old problem of permanent insect protection. In service, Anaconda Bronze combines the strength of steel with copper's immunity to rust.

With reasonable care screening of Anaconda Bronze Wire will give a lifetime of service and the cost of repairing and replacing rusted and broken screens will be saved many times over.

The first cost of screens and screen cloth of Anaconda Bronze Wire is very little more than galvanized or enameled iron and but a few cents more than copper. In the end Bronze is more economical than any other screen material you can use.

Anaconda Bronze Wire is a product of the largest and most experienced manufacturer of copper and copper alloys. It is not released for shipment until its strength has been demonstrated by tests exceeding those of actual service. Every strand is uniform and of equal strength.

The American Brass Company manufactures both copper and bronze wire for screens, but recommends Bronze for the utmost in service because of its greater strength.

For 40 years, leading screen manufacturers have standardized on Bronze for their best quality screens. Instances are common where screens of Anaconda Bronze have served over twenty-five years and are still in good condition.

When you buy screen cloth, ask if it is made of Anaconda Antique or Golden Bronze Wire. No other material gives the same dependable cost free service.

OTHER ANACONDA BUILDING PRODUCTS

Anaconda Brass Pipe for water service. You need never worry about your water supply if Anaconda Brass Pipe is used. It insures a free flow of water as pure and clear as it enters the pipe. Our booklet, "Ten Years Hence," contains valuable information about durable and economical plumbing. A copy will be sent free on request.

Anaconda Sheet Copper for general roofing purposes—flashings, valleys, gutters, leaders and all exterior and interior sheet metal work. We will gladly send you a copy of "Upsala House," an interesting story of roofing copper which has lasted 127 years and is still in good condition.

Benedict Nickel for exposed plumbing. This metal, which has a silver-like color, is extensively used for exposed pipe, faucets and fittings because there is no plating to wear off and mar the appearance.

Anaconda Bronze and Nickel Silver, in sheets and special shapes for the manufacture of window and screen frames, mouldings, door plates, thresholds and similar uses.

* * *

In addition to building products, The American Brass Company manufactures Anaconda copper, brass, bronze and nickel silver in every variety of sheets, wire, rods and tubes.

These rustless metals are used in the manufacture of household devices and equipment, such as washing machines, ice boxes, ranges, electric refrigerators, vacuum cleaners, hardware, lighting fixtures, lamps, curtain rods, weatherstrips, sash chains, water heaters and storage tanks, radiators and electrical appliances of all descriptions.

Anaconda products embody the highest technical skill in manufacture with an accumulated knowledge and experience of more than a century. A single organization is responsible for every process of mining, smelting and manufacturing, thereby insuring the utmost in quality at every stage of production from mine to consumer.

THE AMERICAN BRASS COMPANY

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ANACONDA AMERICAN BRASS LIMITED

New Toronto, Ontario

Printed in U. S. A.